

# PURDUE

UNIVERSITY

## Department of Mathematics Seminars and Colloquia

January 14–18, 2008

### Geometric Analysis Seminar

Monday  
January 14  
Professor András Stipsicz, Columbia University and Rényi Institute, Budapest  
“Tight Contact Structures on Seifert Fibered 3-Manifolds”  
3:30 P.M. MATH 215

### Probability Seminar

Monday  
January 14  
Professor Burgess Davis, Purdue University  
“Random Walks Killed When They Exit Domains and the Spectral Gap of the Dirichlet Laplacian”  
3:30 P.M. REC 117

### Department of Mathematics Special Colloquium

Tuesday  
January 15  
Dr. Zhijian Yang, Caltech  
“Atomistic and Continuum Modeling and Simulation of Crystalline Solids”  
2:30 P.M. BRNG B230

### Operator Algebras Seminar

Tuesday  
January 15  
Professor Marius Dadarlat, Purdue University  
“The Jiang-Su Algebra”  
2:45 P.M. MATH 731

### Department of Mathematics Colloquium

Tuesday  
January 15  
Professor Andras Stipsicz, Columbia University  
“Heegaard Floer Theory and Contact Geometry”  
4:30 P.M. LWSN 1142

### Working Algebraic Geometry Seminar

Wednesday  
January 16  
Professor Jinhyun Park, Purdue University  
“Additive Higher Chow groups in Motivic Cohomology, Euclidean Scissors Congruence, and Additive  $K$ -theory, Part 2”  
3:30 P.M. REC 117

### Commutative Algebra Seminar

Wednesday  
January 16  
Professor Giulio Caviglia, Purdue University  
“The Mermin-Murai Proof of the Lex Plus Powers Conjecture in the Monomial Case”  
4:30 P.M. MATH 215

### Student Seminar on Algebraic Geometry

Wednesday  
January 16  
Mr. Botong Wang, Purdue University  
“Divisors, Section 6, Chapter 2 of Hartshorne’s”  
4:30-6:00 P.M. PSYC 2102

### Automorphic Forms and Representation Theory Seminar

Thursday  
January 17  
Professor Edray Goins, Purdue University  
“Distributions of 2-Selmer Ranks for Elliptic Curves”  
1:30 P.M. MATH 731

**Special Colloquium in Mathematics Education**

Thursday January 17	Ms. Rachael Kenney, North Carolina State University “The Influence of Symbols on Students’ Problem Solving Goals and Activities” 2:30 P.M.	BRNG 1242
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**Computational & Applied Mathematics Seminar**

Friday January 18	Professor Jinqiao Duan, Illinois Institute of Technology “Geophysical Flows: Stochastic Modeling, Analysis and Computation” 3:30 P.M.	REC 308
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You can also view this information on our departmental web page:  
<http://calendar.science.purdue.edu/math/seminars>